

TOP SECRET

Approved For Release 2004/07/08 : CIA-RDP81B00879R001000100046-4

OXC-4131-62
6 November 1962
Copy 8 of 8

MEMORANDUM FOR: Assistant Director, OSA

SUBJECT : Soluble OXCART Navigation Charts

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1. At the direction of [redacted] OXCART Branch, [redacted]
along with [redacted] visited ACIC, St. Louis, on 2 November 1962.
The purpose of the visit was to be advised on problem areas encountered
by ACIC in its efforts to print a chart (JN-47, Bahama Islands (Cuba) on
special soluble paper. From a stock of 500 sheets of special paper pro-
vided by CIA, ACIC was able to print approximately 250 usable charts.

2. ACIC encountered a number of problems in printing the chart,
among which included the following:

(a) Due to the flimsy quality of the paper it was impossible
to print a chart in the normal number of colors. In the case of JN-47 the
normal number of colors is twelve. With ordinary chart paper this means
running the paper through the press several times. Selecting four colors
at random, the soluble paper JN-47 was run once through a four-color press
with fair success, but with 100 per cent wastage. This was due to the fact
that the paper split and stuck to the blanket of the press. The paper
could not be printed on the "felt" side because of the sticky quality. By
experimenting, the printers discovered they could use the "wrong" side of
the paper. Registration inaccuracy is 6/100 of an inch as opposed to 1/100
of an inch for normal JN charts. Other problems encountered with the paper
were the following:

(1) It was not finish-trimmed;

(2) Paper was not of the proper size;

(3) The paper was not assembled uniformly; that
is, all sheets were not with the felt side up. Instead,
every fifth or sixth sheet was piled in reverse order
making the printing process much longer than it would have
been had these details been taken care of by the paper
manufacturer.

(b) ACIC was able to print on the paper only after coating the
paper with a two-part wax and one part lithographic tint base. This in no way
affected the solubility of the paper.

This document contains information
referring to Project OXCART

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NO CHANGE IN CLASS.
11-651 ASSIGNED

CLASS. CHANGED TO: TS S C

NEXT REVIEW DATE:

DATE: 11/03/82

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(e) ACIC pointed out that printing costs increase by 400 per cent when using this type of paper.

(d) ACIC feels that American paper companies have in being or can develop the same type paper but with better printing qualities. They provided addresses and names of two organizations that could possibly take care of the solubility paper requirements.

3. ACIC was interested in amounts of printing that would be required in the future. Based on information obtained from IDEALIST Section, I advised that probably 16 JN's and 4 GNC's in 100 copies each would be required in the not too distant future. This requirement would call for at least 50,000 sheets of paper. If 1:200 series target charts were to be reprinted on soluble paper, the amount of stock required would be astronomical. There are over 2,000 target charts presently printed for the Soviet-Satellite areas. (1: 200,000 scale charts are being considered for target identification in zeroing the IRS navigation system.)

4. ACIC further pointed out that Headquarters Air Force would have to provide direction in any further printing on soluble paper for this project. In view of technical problems and subsequent loss of press time, ACIC's normal printing would of necessity suffer. Headquarters Air Force will have to provide priorities to St. Louis in order for them to proceed any further on this project. They recommended too that an ACIC employee be cleared to work on this project on a regular full-time basis.

5. RECOMMENDATIONS:

(a) If the requirement for printing on soluble paper still abides, fast action should be taken to obtain a paper in the U. S. that meets both the printing qualities and solubility characteristics desired.

(b) An assessment should be made for the need of 1:200,000 series target charts for utilization in the type navigation envisaged for the vehicle.

(c) That an ACIC requirements individual be cleared for this project to follow through on charting problems.

(d) That Headquarters Air Force, through Colonel Geary and AFCLIN, be brought more deeply into the problem in order to establish priorities for ACIC to produce OXCART charts.

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6. The undersigned is at your disposal to discuss this matter with you further.

SIGNED

[Redacted]
Intelligence Staff/OSA

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